

Nevada  
Environmental  
Restoration  
Project

DOE/NV--1219



Post-Closure Inspection Report  
for Corrective Action Unit 90:  
Area 2 Bitcutter Containment,  
Nevada Test Site, Nevada

For the Period  
July 2006 - June 2007

Controlled Copy No.: \_\_\_\_\_

Revision: 0

August 2007

Environmental Restoration  
Project



U.S. Department of Energy  
National Nuclear Security Administration  
Nevada Site Office

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**POST-CLOSURE INSPECTION REPORT  
FOR CORRECTIVE ACTION UNIT 90:  
AREA 2 BITCUTTER CONTAINMENT,  
NEVADA TEST SITE, NEVADA**

**FOR THE PERIOD  
JULY 2006 - JUNE 2007**

**U.S. Department of Energy  
National Nuclear Security Administration  
Nevada Site Office  
Las Vegas, Nevada**

**Controlled Copy No.:\_\_\_\_\_**  
**Revision: 0**  
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**POST-CLOSURE INSPECTION REPORT  
FOR CORRECTIVE ACTION UNIT 90:  
AREA 2 BITCUTTER CONTAINMENT,  
NEVADA TEST SITE, NEVADA**

**FOR THE PERIOD  
JULY 2006 - JUNE 2007**

Approved By: SIGNATURE APPROVED Date: 8/1/2007  
Sabine T. Curtis  
Acting Federal Sub-Project Director  
Industrial Sites Sub-Project

Approved By: SIGNATURE APPROVED Date: 8/1/2007  
Kevin J. Cabbie  
Acting Federal Project Director  
Environmental Restoration Project

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## **1.0 INTRODUCTION**

Corrective Action Unit (CAU) 90, Area 2 Bitcutter Containment, is identified in the *Federal Facility Agreement and Consent Order* of 1996. The post-closure requirements for CAU 90 are described in Section VII.B.8.b of the Nevada Test Site *Resource Conservation and Recovery Act* Permit for a Hazardous Waste Management Facility Number NEV HW0021, dated November 2005.

Post-closure activities consist of the following:

- Semiannual inspections of the site using inspection checklists
- Photographic documentation
- Field note documentation
- Preparation and submittal of an annual Post-Closure Inspection Report

This annual report covers the period of July 2006 to June 2007 and consists of a summary of the results of the inspections, copies of the inspection checklists and field notes, maintenance and repair records (if any), photographs, and conclusions and recommendations. The inspection checklists are provided in Appendix A, a copy of the field notes is provided in Appendix B, and copies of photographs taken during the inspections are provided in Appendix C.

## **2.0 RESULTS OF THE INSPECTIONS**

The semiannual inspections for CAU 90 were performed on December 20, 2006, and June 13, 2007.

The December inspection indicated continued integrity of the unit. No animal burrows were noted on the cover. The fencing and signs were in excellent condition. No repairs or maintenance were recommended.

The June inspection also indicated continued integrity of the waste unit cover. No animal burrows or vegetation were noted on the cover. The fencing and signs were in excellent condition. No repairs or maintenance were recommended.

## **3.0 CONCLUSIONS AND RECOMMENDATIONS**

All inspections at CAU 90 indicated continued integrity of the unit. It is recommended to continue inspections as scheduled. No repairs are needed.

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## **APPENDIX A**

### **POST-CLOSURE INSPECTION CHECKLISTS**

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**CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST**Inspection Date and Time: 12/20/06

Reason for Inspection: Semi-annual

Date of Last Post-Closure Inspection: 6/20/06

Reason for Last Post-Closure Inspection: Semi-annual

Responsible Agency: Bechtel Nevada Environmental Restoration

Address: Nevada Test Site, Mercury, Nevada

Responsible Agency Official: Jeffrey L. Smith, Project Manager

Chief Inspector: Glenn RichardsonTitle: Task Manager

Organization: Environmental Restoration

Assistant Inspector: Shaughn BurnisonTitle: Field Support Tech Lead

Organization: Environmental Restoration

**A. GENERAL INSTRUCTIONS**

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected semi-annually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

**B. PREPARATION (To be completed prior to site visit)**

YES NO EXPLANATION

1. Has the Post-Closure Permit been reviewed?

☒☐

2. Have the design basis documents been reviewed?

☒☐

3. Have the site as-built plans and site base map been reviewed?

☒☐

4. Have the previous inspection reports been reviewed?

☒☐

a. Were anomalies or trends detected on previous inspections?

☐☒

b. Was maintenance performed?

☐☒

5. Have the site maintenance and repair records been reviewed?

☒☐

a. Has site repair resulted in a change from as-built conditions?

☐☒

b. Are revised as-built plans available that reflect repair changes?

☐☐

N/A

**C. SITE INSPECTION PREPARATION**

Assemble the following, as needed, to conduct inspections:

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc.
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment

**CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST**

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?		✓	
b. Are there any new roads or trails?		✓	
c. Has there been any change in the position of nearby washes?		✓	
d. Has there been lateral excursion or erosion/deposition of nearby washes?		✓	
e. Are there new drainage channels?		✓	
f. Has there been a change in the surrounding vegetation?		✓	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?		✓	
b. Have any posts been damaged or their anchoring weakened?		✓	
c. Does the gate show evidence of tampering or damage?		✓	
d. Was the gate locked?	✓		
e. Is there any evidence of human intrusion onto the cover?		✓	
f. Is there any evidence of large animal intrusion onto the cover?		✓	
g. Have any signs been damaged or removed? (Number of signs replaced: __)		✓	
h. Other?		✓	
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?		✓	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?		✓	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?		✓	
d. Other?		✓	
4. Waste unit cover:			
a. Is there evidence of settling?		✓	
b. Is there evidence of cracking?		✓	
c. Is there evidence of erosion (wind or water)?		✓	
d. Is there evidence of animal burrowing?		✓	
e. Is there vegetation growing on the cover?		✓	
g. Other (including trash, debris, etc within fenced area)?		✓	

## CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST

## 5. Photograph Instructions:

A total of 6 photographs are required to be taken during each inspection of CAU 90. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Three (3) of the west unit from outside the fence, one in each compass direction (i.e., N, S, E) and
- Three (3) of the east unit from outside the fence, one in each compass direction (i.e., N, S, W).

## 6. Photograph Documentation:

YES	NO	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?  
(Number of photographs taken 6)

c. Other?

## E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?  
(Immediate report required)

Person/Agency to whom report was made:

2. Are more frequent inspections required?

3. Are existing maintenance/repair actions satisfactory?

4. Is other maintenance/repair necessary?

5. Field conclusions/recommendations:

*The signs and fencing are in good condition.  
There was no evidence of animal burrowing.*

## F. CERTIFICATION

I have conducted an inspection of CAU 90, Area 2 Bitcutter Containment, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph logs.

Chief Inspector's Signature:

Date: 12/20/06

Printed Name:

Glenn Richardson

Title:

Tast Manager

**CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST**

Inspection Date and Time: <u>6/13/07</u> <u>1:15 PM</u>	Reason for Inspection: Semi-annual
Date of Last Post-Closure Inspection: <u>12/20/06</u>	Reason for Last Post-Closure Inspection: Semi-annual
Responsible Agency: National Security Technologies - Environmental Restoration	
Address: Nevada Test Site, Mercury, Nevada	
Responsible Agency Official: Jeffrey L. Smith, Project Manager	
Chief Inspector: <u>Glenn Richardson</u>	Title: <u>Task Manager</u> Organization: Environmental Restoration
Assistant Inspector: <u>Kevin Olsen</u>	Title: <u>Deputy Field Ops Manager</u> Organization: Environmental Restoration

**A. GENERAL INSTRUCTIONS**

1. All checklist items must be completed and detailed comments made to document the results of the site inspection. The completed checklist is part of the field record of the inspection. Additional pages should be used as necessary to ensure that a complete record is made. Attach the additional pages and number all pages upon completion of the inspection.
2. Any checklist line item marked by an inspector in a SHADED BOX must be fully explained or an appropriate reference to previous reports provided. The purpose of this requirement is to provide a written explanation of inspector observations and the inspector's rationale for conclusions and recommendations. Explanations are to be placed on additional attachments and cross-referenced appropriately. Explanations, in addition to narrative, will take the form of sketches, measurements, and annotated site maps.
3. The site inspection is a walking inspection of the entire site including the perimeter and sufficient transects to be able to inspect the entire surface and all features specifically described in this checklist.
4. A standard set of color photographs is required. In addition, all anomalous features or new features (such as changes in adjacent area land use) are to be photographed. A photograph log entry will be made for each photograph taken.
5. Field notes taken to assist in completion of this checklist will become part of the inspection record. No form is specified for field notes; however, they must be legible and in sufficient detail to enable review by succeeding inspectors and the responsible agency.
6. This unit will be inspected semi-annually with formal reporting to the Nevada Division of Environmental Protection to be done annually. The annual report will include an executive summary, this inspection checklist with field notes and photograph log attached, and recommendations and conclusions.

B. PREPARATION (To be completed prior to site visit)	YES	NO	EXPLANATION
1. Has the Post-Closure Permit been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Have the design basis documents been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Have the site as-built plans and site base map been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Have the previous inspection reports been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Were anomalies or trends detected on previous inspections?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Was maintenance performed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Have the site maintenance and repair records been reviewed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Has site repair resulted in a change from as-built conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are revised as-built plans available that reflect repair changes?	<input type="checkbox"/>	<input type="checkbox"/>	N/A

**C. SITE INSPECTION PREPARATION**

Assemble the following, as needed, to conduct inspections

- a. Camera, film, and batteries
- b. Keys to locks
- c. Clipboard
- d. Tape measure
- e. Radio, pager, etc
- f. Previous Post-Closure Report, Inspection Checklists, repair records, and as-built plans
- g. Other miscellaneous support equipment



## CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST

D. SITE INSPECTION	YES	NO	EXPLANATION
1. Adjacent off-site features:			
a. Have there been any changes in the use of the adjacent area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Are there any new roads or trails?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Has there been any change in the position of nearby washes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Has there been lateral excursion or erosion/deposition of nearby washes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Are there new drainage channels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Has there been a change in the surrounding vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Access roads, fences, gates, and signs:			
a. Is there a break in the fence?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Have any posts been damaged or their anchoring weakened?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Does the gate show evidence of tampering or damage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Was the gate locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Is there any evidence of human intrusion onto the cover?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Is there any evidence of large animal intrusion onto the cover?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Have any signs been damaged or removed? (Number of signs replaced: ____)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
h. Other?	<input type="checkbox"/>	<input type="checkbox"/>	N/A
3. Monuments and other permanent features:			
a. Have survey markers, boundary monuments, or monitoring stations been disturbed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Do natural processes threaten the integrity of any survey marker, boundary monument or monitoring station?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Is there excessive vegetation around the survey markers, boundary monuments, or monitoring stations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Other?	<input type="checkbox"/>	<input type="checkbox"/>	N/A
4. Waste unit cover:			
a. Is there evidence of settling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b. Is there evidence of cracking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Is there evidence of erosion (wind or water)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Is there evidence of animal burrowing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Is there vegetation growing on the cover?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Other (including trash, debris, etc within fenced area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

## CAU 90: AREA 2 BITCUTTER CONTAINMENT, POST-CLOSURE INSPECTION CHECKLIST

## 5. Photograph Instructions:

A total of 6 photographs are required to be taken during each inspection of CAU 90. Additional photographs may also be taken. The required photographs shall be taken as follows:

- Three (3) of the west unit from outside the fence, one in each compass direction (i.e., N, S, E) and
- Three (3) of the east unit from outside the fence, one in each compass direction (i.e., N, S, W).

## 6. Photograph Documentation:

YES	NO	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

a. Have all photographs required by the photograph instructions been taken?

b. Has a photograph log been prepared?  
(Number of photographs taken: 6)

c. Other?

## E. FIELD CONCLUSIONS

1. Is there an imminent hazard to the integrity of the unit?  
(Immediate report required)

Person/Agency to whom report was made:

2. Are more frequent inspections required?

3. Are existing maintenance/repair actions satisfactory?

4. Is other maintenance/repair necessary?

5. Field conclusions/recommendations: The signage and fencing are in good condition. There were no signs of animal burrows or vegetation growth. Overall site conditions are excellent.

## F. CERTIFICATION

I have conducted an inspection of CAU 90, Area 2 Bitcutter Containment, in accordance with the procedures of the Post-Closure Permit (including the Post-Closure Plan) as recorded on this checklist, attached sheets, field notes, photographs, and photograph log.

Chief Inspector's Signature:

Date: 6/13/07

Printed Name:

Glenn Richardson

Title:

Task Manager

## **APPENDIX B**

### **FIELD NOTES**

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(Shaughn Burnisan is supporting another ER field job and will accompany us at the Bitcutter site in Area 2.)

CAU 90 - Arrived at Bitcutter Containment site at 9:30 AM.

Performed Tailgate Safety Briefing:

- Discussed site hazards and environmental weather conditions. Temp  $\approx 30^{\circ}$ .
- Discussed Slips/Trips/Falls due to snow on ground.  
Cold Stress

Performed inspection of chain-link fence, signage, and looked for signs of animal burrowing.

Site conditions looked good at the Bitcutter site.

No follow-up actions are required.

9:50 AM - Left CAU 90, heading to CAU 110 Area 3 U-3ax/61 site

10:10 AM - Arrived at U3ax/61

Performed inspection of the signage, fencing, and vegetative cover. Also, showed NDEP the area that subsidence repairs were made on 12/14/06. NDEP was satisfied with the repairs. NDEP expressed a comment that was favorable about the method of repair.

We noticed some small burrows on the north edge of the cover. Photos were taken.

Overall the site was in good condition.

10:55 AM - Left U-3ax/61 heading to Decon Pond

11:05 AM - Arrived at CAU 92 Decon Pond

Performed our inspection of the fencing, signage, surface monuments, and vegetation.

We noticed vegetation that was starting along the outside perimeter of the cover. Vegetation (light)

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

RCRA Post Closure Inspections - June 13, 2007

Scope:

Perform <sup>semi-</sup>annual inspection of CAU 90 and quarterly inspections for CAUs 92 and 112.

CAU 110 was already inspected on June 4, 2007 in conjunction with the Compliance Evaluation Inspection w/ NNSA & NDEP.

CAU 91 does not require an inspection at this time.

Personnel: Glenn Richardson - NSTec Task Manager

Kevin Olsen - NSTec Deputy <sup>Field</sup> Ops Manager

Visitors: None

Equipment: Digital Camera

Weather: Very Sunny, Hot - Over 95°F

RCRA inspections were originally planned for the morning of 6/13/07; however, they were performed in the afternoon.

1:15 PM - Arrived at CAU 90 - Btetter Containment site.

Performed a Tailgate Safety Briefing. We discussed the following:

- Heat stress conditions
- Slips/trips/fall hazards
- Biological hazards

1:19 PM - Performed inspection of chain-link fencing, signage, and looked for signs of animal intrusion. Overall site conditions were excellent. Photo documentation was taken. There are no follow-up actions required at this site.

1:40 PM - Completed the CAU 90 inspection, heading to CAU 92.

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

WITNESS

DATE

6/13/07

## **APPENDIX C**

### **INSPECTION PHOTOGRAPHS**

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## PHOTOGRAPH LOG

PHOTOGRAPH NUMBER	DATE	DESCRIPTION
1	12/20/2006	View of west unit looking north
2	12/20/2006	View of west unit looking east
3	12/20/2006	View of west unit looking south
4	12/20/2006	View of east unit looking south
5	12/20/2006	View of east unit looking west
6	12/20/2006	View of east unit looking north
7	6/13/2007	View of west unit looking north
8	6/13/2007	View of west unit looking east
9	6/13/2007	View of west unit looking south
10	6/13/2007	View of east unit looking south
11	6/13/2007	View of east unit looking west
12	6/13/2007	View of east unit looking north

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Photograph 1: View of west unit looking north, 12/20/2006



Photograph 2: View of west unit looking east, 12/20/2006





Photograph 3: View of west unit looking south, 12/20/2006



Photograph 4: View of east unit looking south, 12/20/2006



Photograph 5: View of east unit looking west, 12/20/2006



Photograph 6: View of east unit looking north, 12/20/2006





Photograph 7: View of west unit looking north, 6/13/2007



Photograph 8: View of west unit looking east, 6/13/2007



Photograph 9: View of west unit looking south, 6/13/2007



Photograph 10: View of east unit looking south, 6/13/2007





Photograph 11: View of east unit looking west, 6/13/2007



Photograph 12: View of east unit looking north, 6/13/2007



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